

Product datasheet for RC204302

ABHD12 (NM_015600) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD12 (NM_015600) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABHD12
Synonyms:	ABHD12A; BEM46L2; C20orf22; dj965G21.2; hABHD12; PHARC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204302 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAAGCGGACCGAGCCCGTCGCCTTGGAGCATGAGCGCTGCGCCGCCGCGGGCTCGTCCTCTCCG
GCTCGGCCCGCGCGCTGGACCCGACTGCCGCTGAAGCAGAACCTACGCTGACGGGCCCGCGGC
GGCTGAGCCGCTGCGCAGCCGACGCGGGAATGAAGCGGCGCTGGCAGGCGAAAGGGCGTGTGGTTG
CGCCTGAGGAAGATACTTTCTGTGTTTGGGGTTGTACATTGCCATTCCATTTCTCATCAAATATGTC
CTGGAATACAGGCCAACTGATTTTCTGAATTCGTAAGAGTTCCTATTTTCATTGATTTGAAAAACC
ACAGGATCAAGTTTGAATCACACGTGTAACACTACCTGCAGCCAGAGGAAGACGTGACCATTTGGAGTC
TGGCACACCGTCCCTGCAGTCTGGTGAAGAACGCCAAAGGCAAAGACCAGATGTGGTATGAGGATGCC
GGCTTCCAGCCACCCTATCATTCTGTACCTGCATGGGAACGCAGGTACCAGAGGAGCGACCACC CGCT
GGAGCTTTACAAGGTGCTGAGTTCCTTGGTTACCATGTGGTCACCTTTGACTACAGAGTTGGGGTGAC
TCAGTGGGAACGCCATCTGAGCGGGCATGACCTATGACGCACTCCACGTTTTGACTGGATCAAAGCAA
GAAGTGGTGACAACCCCGTGTACATCTGGGGCCACTCTCTGGGCACTGGCGTGGCGACAAATCTGGTGCG
GCGCCTCTGTGAGCGAGAGACGCTCCAGATGCCCTTATATTGGAATCTCCATTCATAATCCGTGAA
GAAGTAAGAGCCATCCATTTTCAGTGATATCGATACTCCCTGGGTTTGACTGGTTCTCTTGATC
CTATTACAAGTAGTGGAATTAATTTGCAAATGATGAAAACGTGAAGCACATCTCCTGTCCCTGCTCAT
CCTGCACGCTGAGGACGACCCGGTGGTCCCTTCCAGCTTGGCAGAAAGCTCTATAGCATCGCCGACCA
GCTCGAAGCTTCCGAGATTTCAAAGTTCAGTTTGTGCCCTTTCATTACAGACCTTGCTACAGGCACAAAT
ACATTTACAAGAGCCCTGAGCTGCCACGGATACTGAGACCTCAGCAGGGCCAGTTCCAGCCAGATCC
CAGCATGTGGTCAGAGCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204302 protein sequence
Red=Cloning site Green=Tags(s)

MRKRTEPVALEHERCAAAGSSSSGSAAAALDADCRLKQNLRLTGPAAAEPRCAADAGMKRALGRRKGVWL
 RLRKILFCVLGLYIAIPFLIKLCPGIQAKLIFLNFRVPYFIDLKPKDQQLNHTCNYYLQPEEDVTIGV
 WHTVPAVWWKNAQKQDMWYEDALASSHP IILYLHGNAGTRGGDHRVELYKVLSSLGYHVVTFDYRGWGD
 SVGTSPSERGMTYDALHVFWDWIKARSGDNPVYIIGHSLGTGVATNLVRRLCERETPPDALILESPTNIRE
 EAKSHPFVSIYRYFPGFDWFFLDPIITSSGIKFANDENVKHI SCPLLILHAEDDPVVPFQLGRKLYSIAAP
 ARSFRDFKVQFVPFSDLG YRHKYIYKSP ELPRLRPQQGPGSSPDPSMWSELV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6780_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_015600

ORF Size: 1212 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_015600.2](#), [NP_056415.1](#)

RefSeq Size: 1751 bp

RefSeq ORF: 1215 bp

Locus ID: 26090

UniProt ID: [Q8N2K0](#)

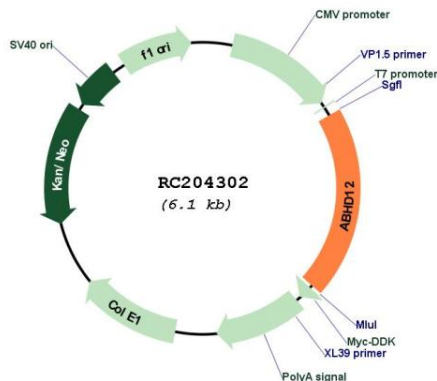
Cytogenetics: 20p11.21

Protein Families: Protease, Transmembrane

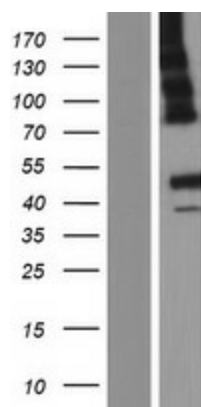
MW: 45.6 kDa

Gene Summary: This gene encodes an enzyme that catalyzes the hydrolysis of 2-arachidonoyl glycerol (2-AG), the main endocannabinoid lipid transmitter that acts on cannabinoid receptors, CB1 and CB2. The endocannabinoid system is involved in a wide range of physiological processes, including neurotransmission, mood, appetite, pain appreciation, addiction behavior, and inflammation. Mutations in this gene are associated with the neurodegenerative disease, PHARC (polyneuropathy, hearing loss, ataxia, retinitis pigmentosa, and cataract), resulting from an inborn error of endocannabinoid metabolism. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Jan 2011]

Product images:



Circular map for RC204302



Western blot validation of overexpression lysate (Cat# [LY414447]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204302 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).